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PN - JP4253764 A 19920909

TI - POLYESTER-POLYESTER BLOCK COPOLYMER COMPOSITION

FI - C08G63/08+NLZ ; C08G63/181+NME ; C08G63/692+NNM ; C08G81/00+NUT ; C08K5/49+KKC ; C08L67/02+LPC ; C08L67/00 ; C08G63/08 ; C08G63/181 ; C08G63/692 ; C08G81/00

PA - TORAY INDUSTRIES

IN - ISHII HIROMITSU; AKIBA KAZUTERU; HIRATSUKA MOTONORI

AP - JP19910009777 19910130

PR - JP19910009777 19910130

DT - I

B53

AN - 1992-352690 [43]

TI - Polyester-polyester block copolymer compsns. giving impact resistant mouldings - contain mono:functional epoxy cpd. and penta:valent phosphorus cpd. in copolymer based on aromatic polyester hard segments and polylactone soft segments

AB - J04253764 Compsn. contains (a) 0.01-10 pts.wt. of an at least monofunctional epoxy cpd. and (b) 0.005-1 pts.wt. of a pentavalent P cpd. per 100 pts.wt. of a polyester-polyester block copolymer with a hard segment of a crystalline aromatic polyester and a soft segment of a polylactone.

- USE/ADVANTAGE - The polyester-polyester block copolymer compsns. have a high melt viscosity, a less fall of melt viscosity during melt retention, thermal stability, when moulded, and thus can be moulded stably. The moulding obtd. from the compsn. has a high impact resistance. (a) and (b) improve melt viscosity and thermal stability during melt retention and consequently mouldability and impact resistance of the mouldings.

- In an example, a mixt. of 75 pts.wt. polybutylene terephthalate, 25 pts.wt. epsilon-caprolactone and 0.03 pt.wt. monobutylmonohydroxytin oxide as catalyst is melt-reacted for 30 min. at 230 deg.C under stirring and under N2 and, from the reaction mixt., is removed unreacted epsilon-caprloactone under reduced pressure to give a polyester-polyester block copolymer with a m.pt. of 208deg.C. 100 pts.wt. of the copolymer, 2.0 pts.wt. bisphenol glycidyl ether and 0.08 pt.wt. trimethyl phosphate are melt-kneaded at 240 deg.C to give a copolymer compsn. A test piece injection-moulded from the compsn. has an impact resistance of 130 J/m. The compsn. has MI's at 240 deg.C under 2160g before and after moulding of 15 and 19 g/10 min respectively. (Dwg.0/0)

IW - POLYESTER POLYESTER BLOCK COPOLYMER COMPOSITION IMPACT RESISTANCE MOULD CONTAIN MONO FUNCTION EPOXY COMPOUND PENTA VALENCE PHOSPHORUS COMPOUND COPOLYMER BASED AROMATIC POLYESTER HARD SEGMENT POLYLACTONE SOFT SEGMENT

PN - JP4253764 A 19920909 DW199243 C08L67/02 006pp

IC - C08G63/08 ;C08G63/181 ;C08G63/692 ;C08G81/00 ;C08K5/49 ;C08L67/02

MC - A05-A01E A05-E01A2 A05-E02 A08-M09B A09-A05A

DC - A23

PA - (TORA) TORAY IND INC

AP - JP19910009777 19910130

PR - JP19910009777 19910130

PN - JP4253764 A 19920909

TI - POLYESTER-POLYESTER BLOCK COPOLYMER COMPOSITION

AB - PURPOSE:To provide a polyester-polyester block copolymer composition which has a high melt viscosity, causes no reduction in melt viscosity during melting, can be molded stably and is excellent in impact resistance.

- CONSTITUTION:A polyester-polyester block copolymer composition comprising 100 pts.wt. polyester-polyester block copolymer which comprises a crystalline aromatic polyester as hard segments and a polylactone as soft segments, 0.01-10 pts.wt. epoxy compound having one or more functional groups, and 0.005-1 pt.wt. pentavalent phosphorus compound.

I - C08L67/02 ;C08G63/08 ;C08G63/181 ;C08G63/692 ;C08G81/00 ;C08K5/49

PA - TORAY IND INC

IN - ISHII HIROMITSU; others: 02

ABD - 19930125

ABV - 017037

GR - C1019

AP - JP19910009777 19910130